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REILLY TAR & CHEMICAL CORPORATION

Mr. H. L. Finch - St. Louis Park

Indianapolis

R. J. Hennessy

September 30, 1970

St. Louis Park Plant - Waste Water - W. O. 701210.

Attached are two prints of each of our drawings 701210-1 and 701210-2 showing the layout and flow diagram of the proposed oil water separator at St. Louis Park. The method of separating the oil from our contaminated water is as follows (refer to the flow diagram, drawing 701210-2):

1. Process water would be collected in a sump from which it is pumped to the inlet of an Edens Model 150M separator. The liquid level in this sump is controlled so the flow is not intermittent but matches the flow in the collecting sewer. This will permit operation of the separator at top efficiency. The maximum flow would be 200 g.p.m. but would normally be less than 100 g.p.m.
2. Light and heavy oils collected in the separator will be pumped to cone bottom tanks for further settling. The oil layers from these tanks will be pumped to storage tanks 1 and 3 for reuse in the cremating operation and the water layer will be drained into the contaminated sump from where it will be pumped into the Edens separator.
3. Sanitary sewers will bypass the Edens separator and discharge into the sump pumping to the city sewer.
4. The sewer from the effluent sump to the city manhole in Walker Street will be a 4" steel schedule 40 pipe protected with a coating to prevent external corrosion. The use of a 4" pressure sewer will enable us to obtain the necessary cover to prevent freezing with a fall of only 2 ft. in 665 ft.

Mr. Justin is taking samples of our influent in St. Louis Park for tests to determine the quality of the effluent after it passes through the separator. I believe we should tell the City how much oil will remain in the discharge and see if they will accept it. If we ask them what specification we must meet they may insist on something ridiculous.

Because of the cold winters it is our plan to cover the Edens separator with a pole barn. If this scheme meets with approval we will prepare an estimate and proceed with detail design.

Very truly yours,

R. J. H.
R. J. Hennessy

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RJH:db
Enclosure.

cc: **Mr. T. E. Reilly**
Mr. P. C. Reilly
Mr. T. J. Ryan
Mr. R. J. Boyle